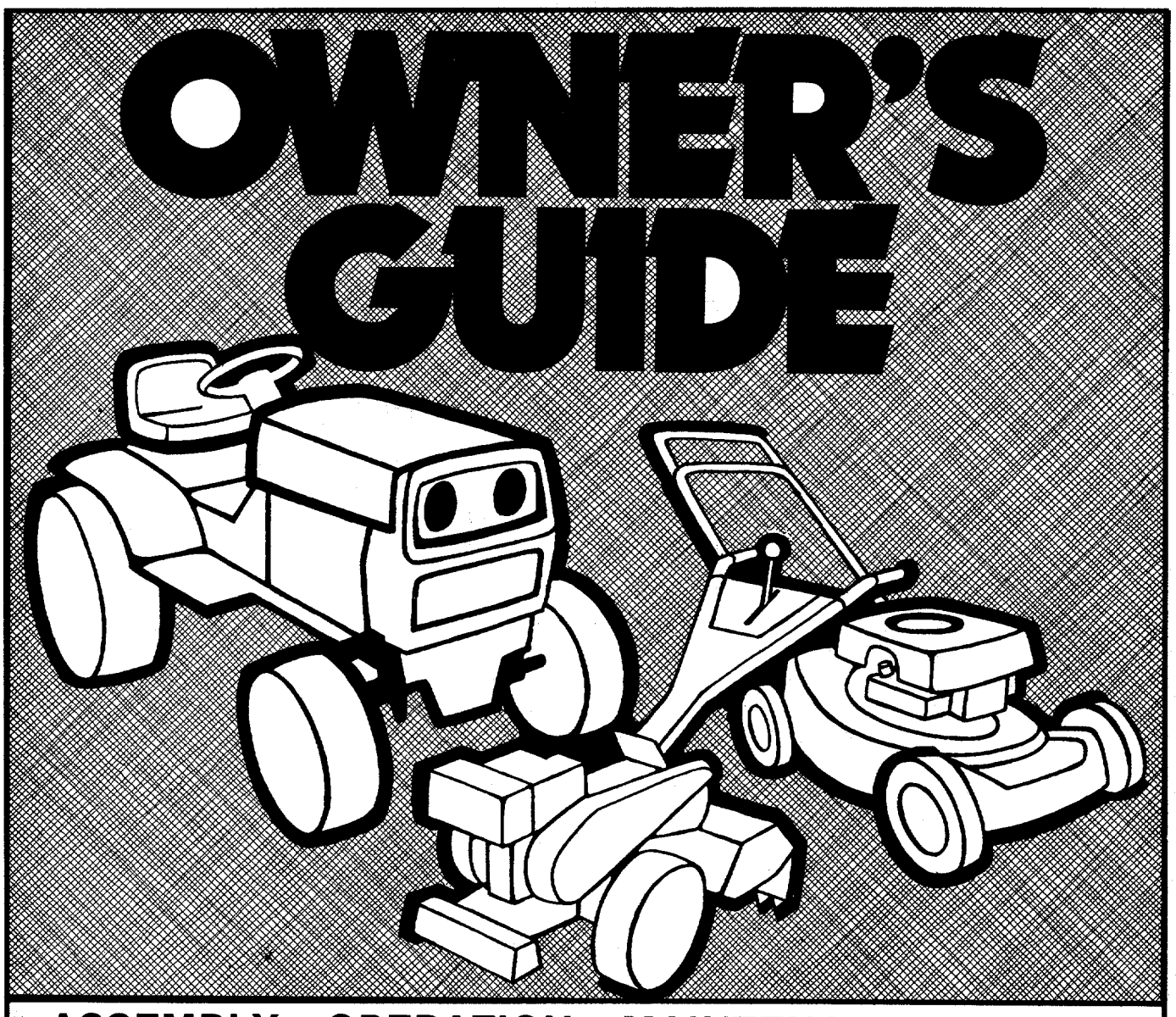
# OWNER'S GUIDE



**ASSEMBLY • OPERATION • MAINTENANCE • PARTS**

# 22″ REAR DISCHARGE SELF-PROPELLED MOWERS

**Important:**

**Read Safety Rules and Instructions Carefully**

**Model Numbers**

**121-343A**

**121-346A**

Thank you for purchasing an American built product.

PRINTED IN U.S.A.

FORM NO. 770-0842

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# LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTD.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

**WARNING**

**TO PURCHASERS**
**OF INTERNAL COMBUSTION ENGINE EQUIPPED**
**MACHINERY OR DEVICES IN THE STATE OF CALIFORNIA**

The equipment which you have just purchased does not have a spark arrester. If this equipment is used on any forest covered land, brush covered land, or grass covered unimproved land in the State of California, before using on such land, the California law requires that a spark arrester be provided. In addition, spark arrester is required by law to be in effective working order. The spark arreste must be attached to the exhaust system and comply with Section 4442 of the California Public Resources Code.

**WARNING**

**To reduce the potential for any injury, comply with the following safety instructions. Failure to comply with the instructions may result in personal injury.**

# SAFE OPERATION PRACTICES FOR WALK-BEHIND MOWERS

## TRAINING

1. It is suggested that this manual be read in its entirety before attempting to assemble or operate this unit. Keep this manual in a safe place for future reference and for ordering replacement parts.
2. Your rotary mower is a precision piece of power equipment, not a plaything. Therefore, exercise extreme caution at all times.
3. Read this Owner's Manual carefully. Be thoroughly familiar with the controls and the proper use of the equipment.
4. Never allow children to operate a power mower. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
5. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, a small object may have been overlooked and could be accidently thrown by the mower in any direction and cause injury.

## PREPARATION

1. Thoroughly inspect the area where the equipment is to be used. Remove all stones, sticks, wire, bones and other foreign objects which could be picked up and thrown by the mower in any direction and cause injury.
2. Do not operate equipment when barefoot or wearing open sandals. Always wear substantial footwear.
3. Do not wear loose fitting clothing that could get caught on the mower.
4. Check the fuel before starting the engine. Gasoline is an extremely flammable fuel. Do not fill the gasoline tank indoors, while the engine is running, or while the engine is still hot. Wipe off any spilled gasoline before starting the engine as it may cause a fire or explosion.
5. Disengage the self-propelled mechanism or drive clutch on units so equipped before starting the engine.
6. Never attempt to make a wheel or cutting height adjustment while the engine is running.
7. Mow only in daylight or in good artificial light.
8. Never operate the equipment in wet grass. Always be sure of your footing. Keep a firm hold on the handle and walk, never run.

## OPERATION

1. Do not change the engine governor settings or overspeed the engine. Excessive engine speeds are dangerous.
2. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade can cause injury.
3. Stop the blade when crossing gravel drives, walks or roads.
4. After striking a foreign object, stop the engine, remove the wire from the spark plug, and thoroughly inspect the mower for any damage. Repair the damage before restarting and operating the mower.
5. If the equipment should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
6. Stop the engine whenever you leave the mower, before cleaning the mower housing, and when making any repairs or inspections.
7. When cleaning, repairing or inspecting, make certain the blade and all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the plug to prevent accidental starting.
8. Before attempting to unclog the mower or discharge chute, stop the engine and be sure the blade has stopped completely. The cutting blade continues to rotate for a few seconds after the engine is shut off. Never place any part of the body in the blade area until you are sure the blade has stopped rotating. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
9. Do not run the engine indoors.
10. Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher or unclogging chute.
11. Mow across the face of slopes, never up-and-down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes.
12. Always disconnect electric mowers (line operated) before cleaning, repairing or adjusting.
13. Never operate mower without proper guards, plates or other safety protective devices in place.
14. Keep washout ports and other mower-housing service openings closed when mowing.
15. **DO NOT OPERATE** this mower with the chute doors open, unless the complete grass catcher is properly mounted on the mower.

## MAINTENANCE AND STORAGE

1. Check the blade and engine mounting bolts at frequent intervals for proper tightness.
2. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
3. Never store the equipment with gasoline in the tank inside of a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
4. To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease.
5. Check the grass catcher bag frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.

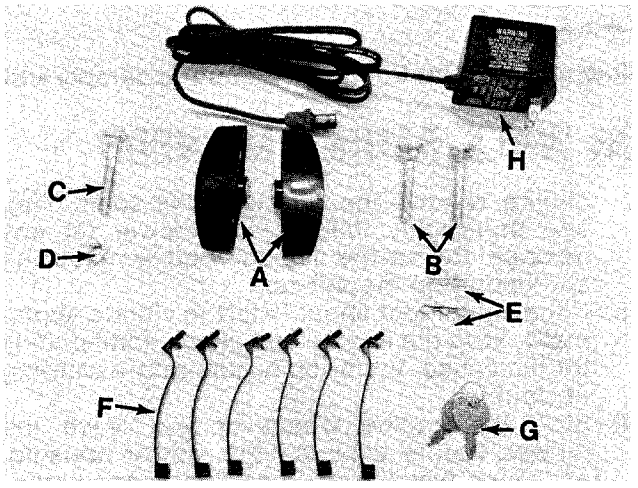



FIGURE 1.

# ASSEMBLY INSTRUCTIONS

**NOTE**

This unit is shipped WITHOUT GASOLINE or OIL. After assembly, see operating section of this manual for proper fuel and engine oil recommendations.

**Contents of Hardware Pack:**

A (2) Hand Knobs
B (2) Curved Carriage Bolts 5/16-18 x 1.75" Long
C (1) Hex Bolt ¼-20 x 1.50" Long
D (1) Hex Lock Nut ¼-20 Thd.
E (2) Hairpin Cotters
F (4) Cable Ties (343A)
(6) Cable Ties (346A)
G (2) Ignition Keys (346A Only)
H (1) Battery Charger (346A Only)

1. Remove the lawn mower, loose parts, hardware pack and literature from the carton. Make certain all parts and literature have been removed before the carton is discarded.
2. Extend the throttle control which is attached to the mower and place on the floor. Be careful not to bend or kink control wire.
3. Place lower handle in position over weld pins in handle mount brackets on deck. Secure by placing two hairpin cotters (E) in inner hole on weld pins. See figure 2.

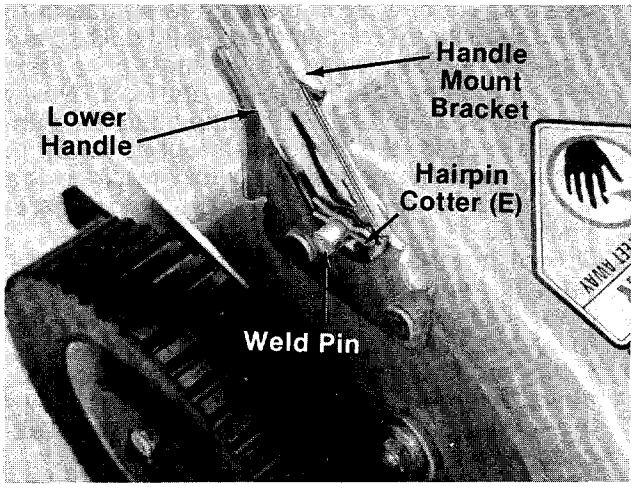



FIGURE 2.

**NOTE**

It may be necessary to bend the ends of the lower handle inward slightly to assure a snug fit against the bracket mounting area.

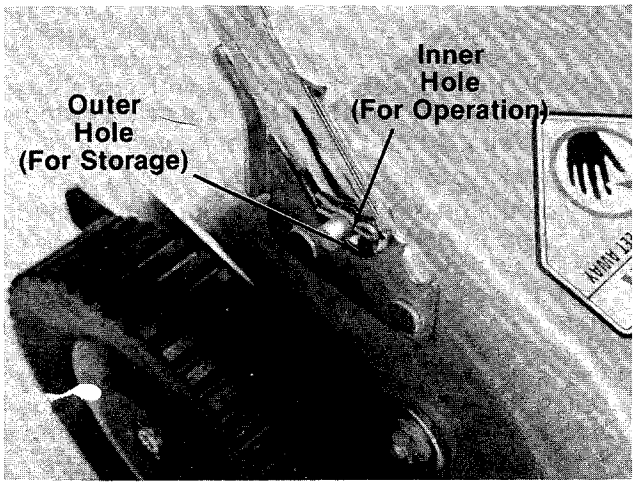



FIGURE 3.

**NOTE**

There are two (2) holes in the handle mount brackets. Place hairpin cotter in the inner hole for operation. The outer hole is for storage. See figure 3.

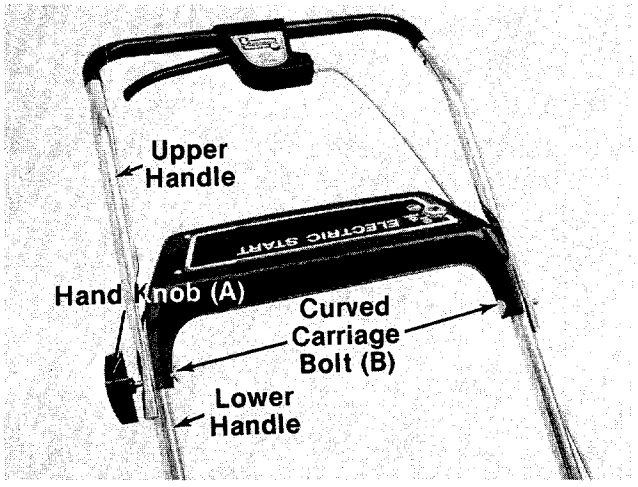



FIGURE 4.

4. There are two height positions for the handle. Place upper handle (with the clutch control attached) in position over lower handle. On Model 346A, hold the handle panel in place. Select hole for either high or low position. Refer to figure 27. Secure with two curved carriage bolts (B) and hand knobs (A) as shown in figure 4. The knobs must be to the outside of the handle.

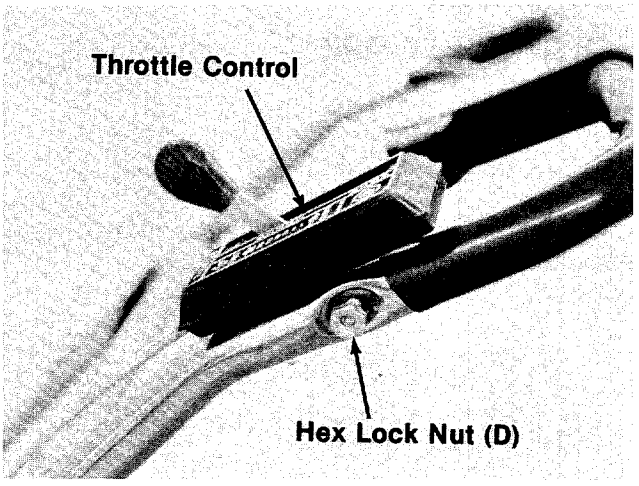



FIGURE 5.

5. Place the throttle control in position on the **left** hand side of upper handle. Secure with hex bolt (C) and hex lock nut (D) provided. See figure 5.

**NOTE**

Reference to left or right side of machine is from operator's position at the handle facing forward.

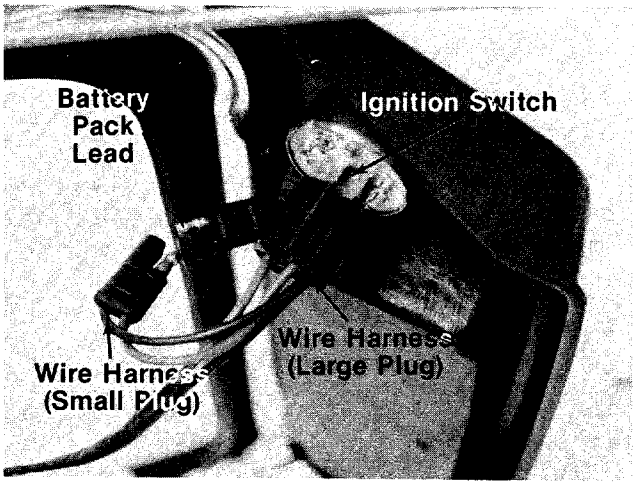



FIGURE 6.

6. **Model 346A Only**—Plug the wire harness (large plug) into the ignition switch and plug the (small plug) wire harness into the battery pack lead. See figure 6.

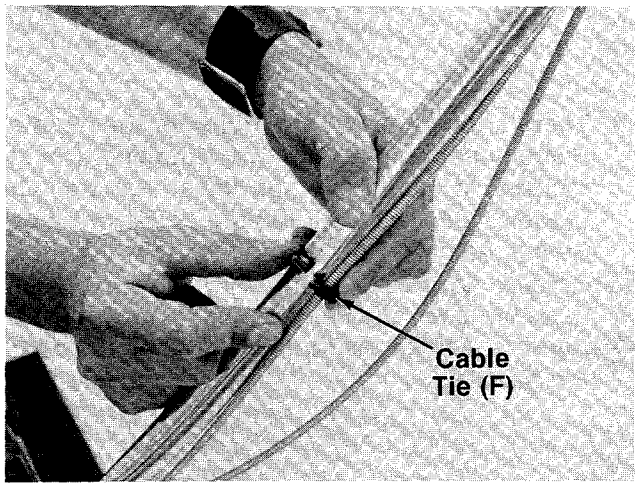



FIGURE 7.

7. Secure throttle control cable and clutch cable to handle with cable ties (F) provided. See figure 7.
8. Check **all** nuts and bolts for correct tightness.

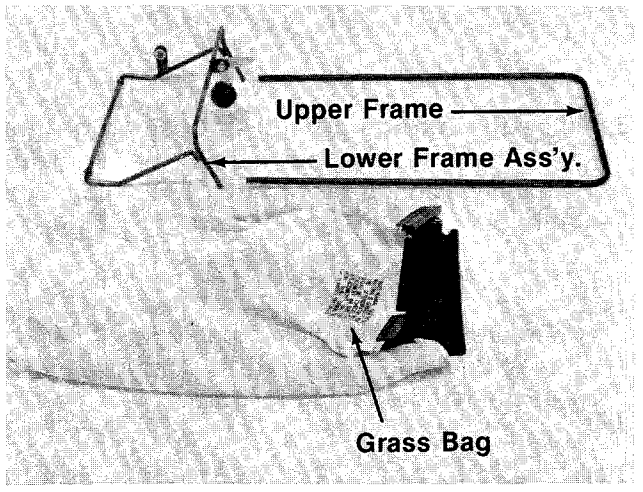



FIGURE 8.

# ASSEMBLY
## Grass Catcher

1. The grass catcher is partially assembled. See figure 8.

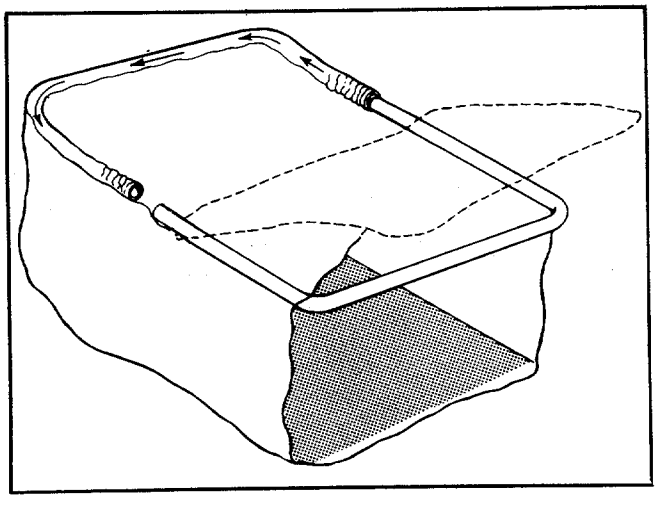


FIGURE 9.

2. Thread all material on one side of upper frame before working it around the frame. See figure 9.

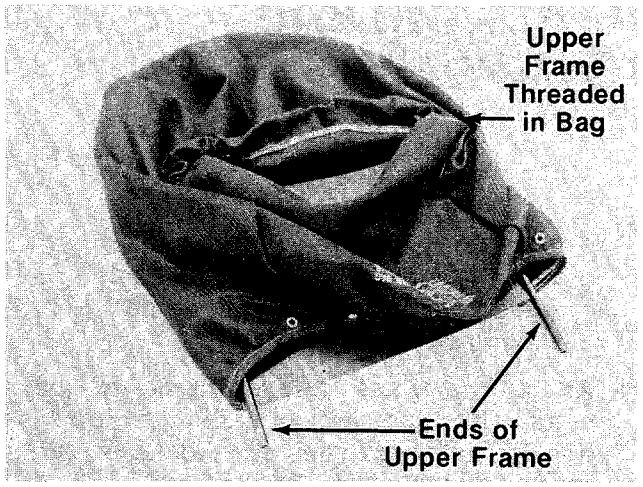



FIGURE 10.

3. After threading, both ends of upper frame should be inside the bag. See figure 10.

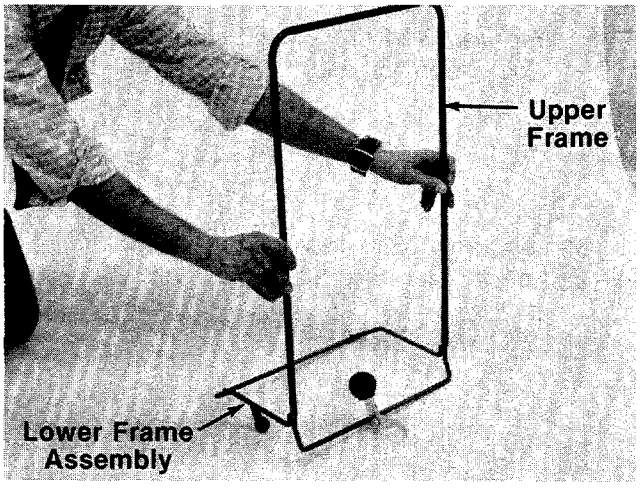



FIGURE 11.

4. Place the upper frame over the lower frame assembly as shown in figure 11.

**NOTE**

Figure 11 was photographed with bag off frame for clarity.

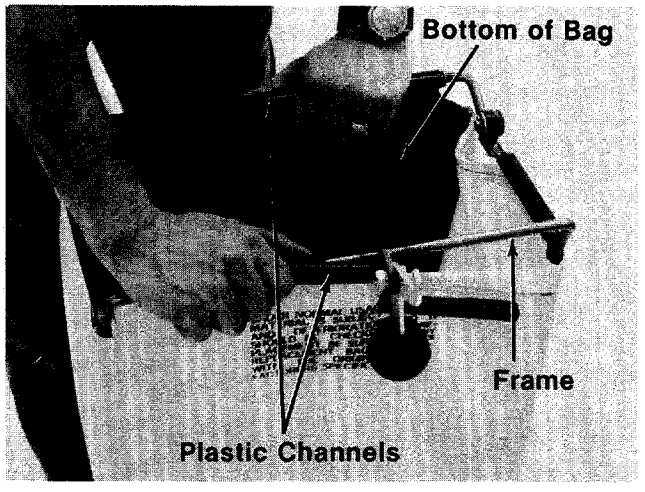



FIGURE 12.

5. Secure bag to frame by slipping plastic channels on bag over frame. See figure 12.
6. Close top of bag by stretching loose material over the end of the upper frame.

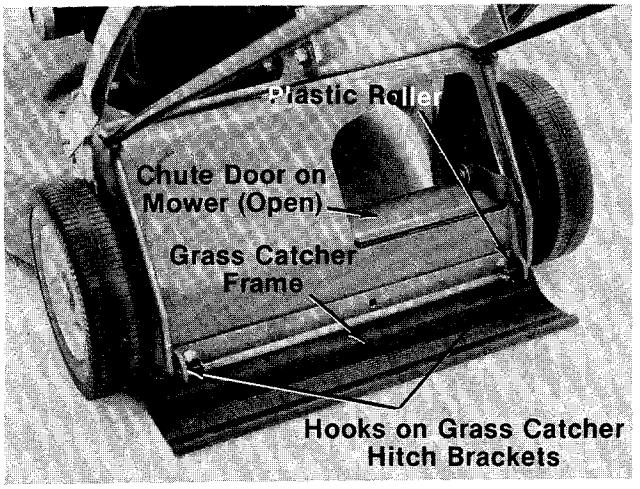



FIGURE 13.

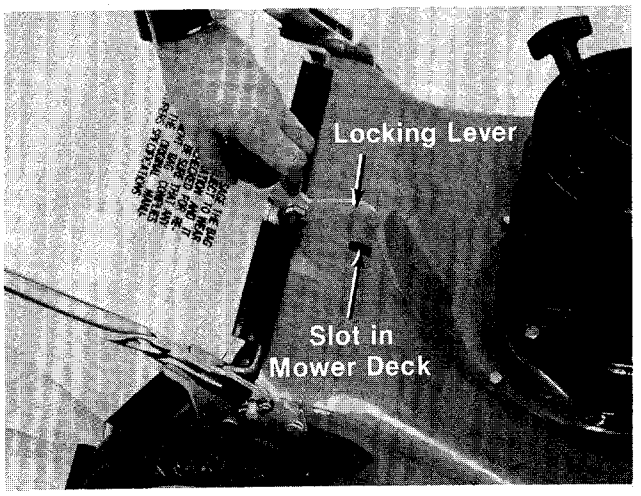



FIGURE 14.

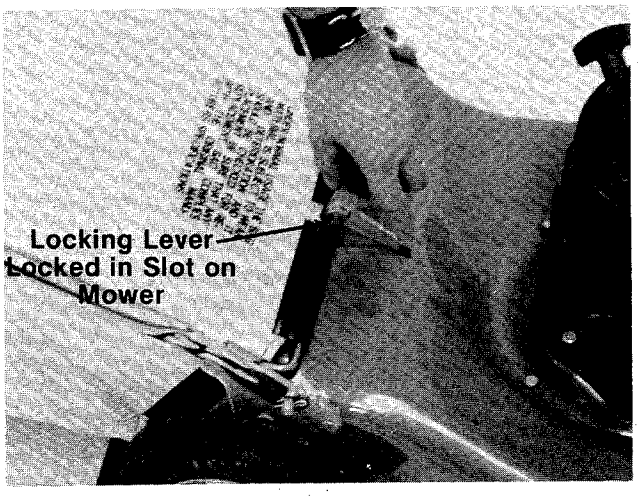



FIGURE 15.

# TO ATTACH BAG TO MOWER

**WARNING**

**DO NOT** operate the mower with the chute door open unless the complete grass catcher is properly mounted on the mower.

1. Attach the grass catcher frame to grass catcher hitch bracket on rear of the mower by hooking grass catcher into hooks on grass catcher hitch bracket. See figure 13.
2. Lift the rear of grass catcher up. The roller on the grass catcher will push the chute door on the mower open. See figure 13.

**NOTE**

Figure 13 is shown with the chute door open for photo clarity only.

3. Move the locking lever forward and hook in slot on mower. See figures 14 and 15.

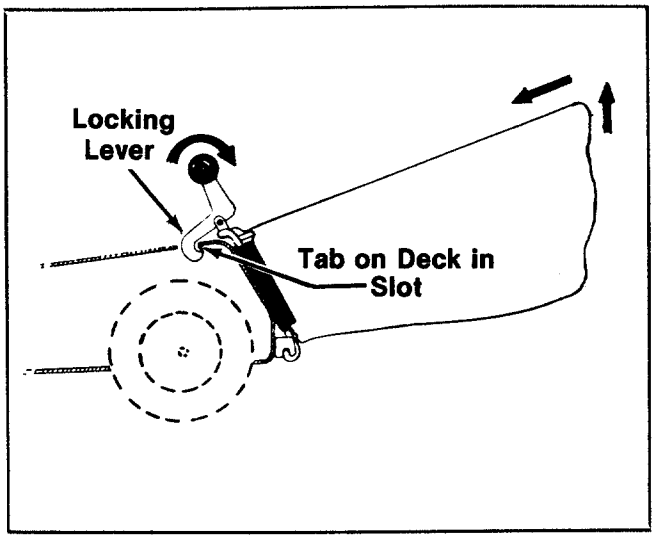



FIGURE 16.

# TO REMOVE GRASS CATCHER

1. To remove the grass catcher, lift the rear of grass catcher, push forward and unhook locking lever.
2. Lift off grass catcher. See figure 16.

# CONTROLS

## THROTTLE CONTROL

The throttle control is located on the left side of the handle. It is used to regulate the engine speed and to stop the engine. See figure 17.

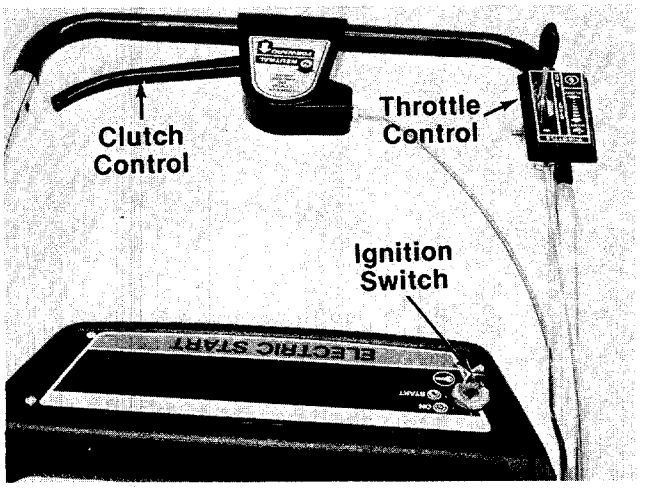



FIGURE 17.

## IGNITION SWITCH (Model 346A Only)

The ignition switch is located on the left hand side of handle panel. It is used for **STARTING ONLY.** See figure 17.

## CLUTCH CONTROL

Squeezing the clutch control engages the drive mechanism to the rear wheels. Releasing the clutch control stops the rear wheels from driving. Release the clutch control to slow down when negotiating an obstacle, making a turn or stopping. See figures 17, 18 and 19.

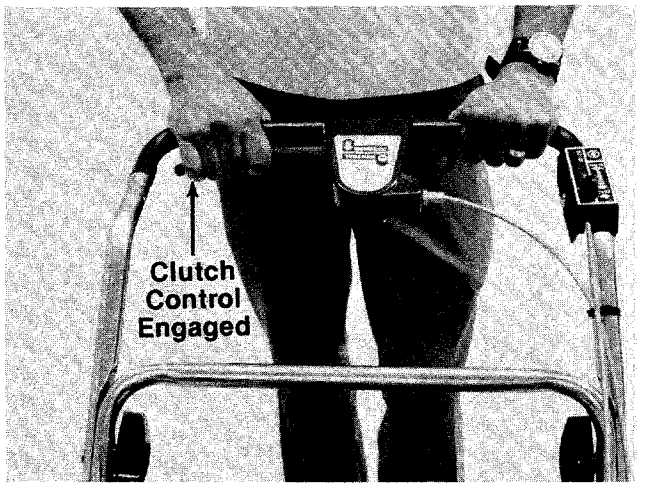



FIGURE 18.

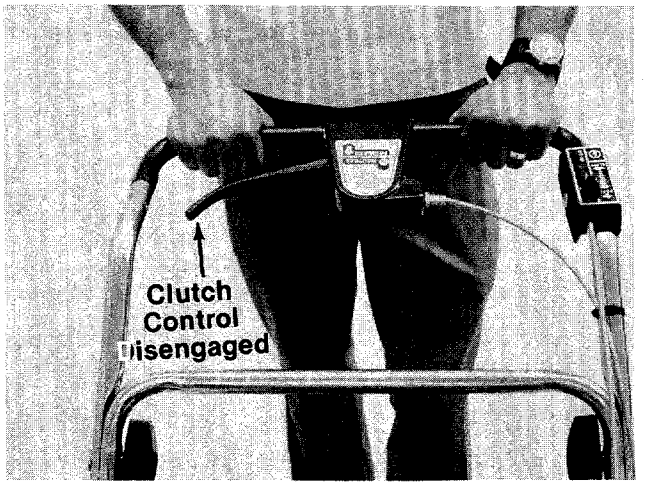



FIGURE 19.

WARNING

The blade continues to rotate when the clutch is released.

# OPERATING INSTRUCTIONS

## DO NOT OPERATE THIS MOWER WITH THE CHUTE DOOR OPEN, UNLESS THE COMPLETE GRASSCATCHER IS PROPERLY MOUNTED ON THE MOWER.

**FIGURE 20.**

Keep hands and feet away from the chute area on cutting deck. See figure 20.

NOTE

For shipping purposes your mower is set with the wheels in a low cutting height position. For best results, raise the cutting position until it is determined which height is best for your lawn. See adjustment section.

### BEFORE STARTING

1. **Model 121-346A Only (Electric Start)**—The battery pack must be charged a minimum of 16 hours for the first time and not more than 20 hours.

NOTE

Only use battery charger provided with mower.

A. Unplug the wire harness from the battery pack. See figure 21.

B. Always connect charger lead to battery pack lead before inserting battery charger plug into household outlet.

C. After charging, disconnect battery charger plug from household outlet first.

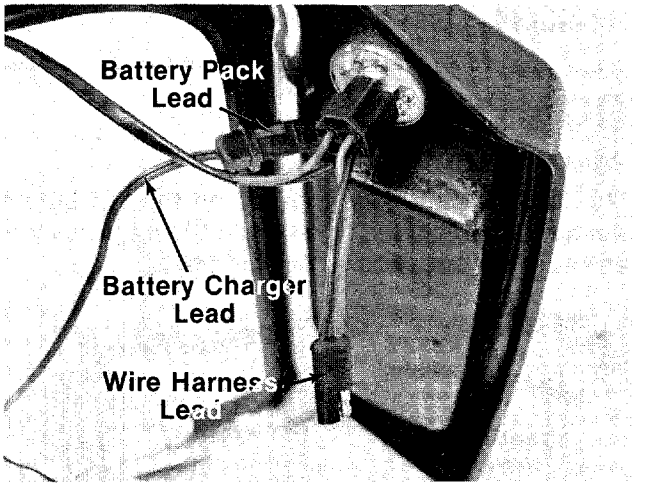



**FIGURE 21.**

WARNING

If battery pack is removed from handle panel for replacement only, **Do Not** separate the batteries for any reason. Dispose of batteries properly.

**Do Not** put batteries in fire or mutilate; may burst or release toxic materials. Electrolyte contains sulfuric acid. **Do Not** short circuit; may cause burns.

When replacing battery pack in handle panel, battery pack must be positioned with the positive terminal to the left hand side and the negative terminal to the right hand side of panel. See figure 22.

Replacing the battery pack incorrectly will cause serious damage.

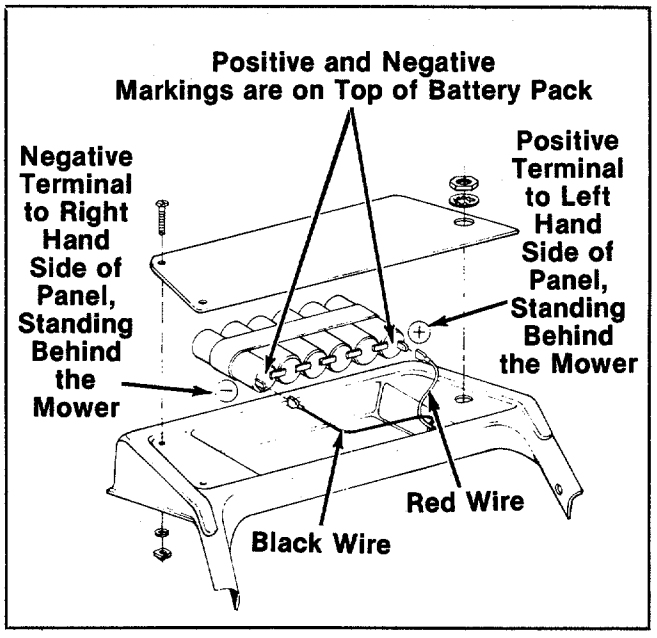

Positive and Negative
Markings are on Top of Battery Pack
Negative Terminal to Right Hand Side of Panel, Standing Behind the Mower
Positive Terminal to Left Hand Side of Panel, Standing Behind the Mower
Red Wire
Black Wire

**FIGURE 22.**

2. Before each use, check for proper clutch operation by performing the following before starting the engine:

   With the clutch control released, push mower forward. It should move freely.

   Pull mower backward. It should move freely.

   If it does not and the rear wheels tend to lock up, the clutch may not be releasing completely. Do not attempt to start the engine until corrections have been made. Check the control cable for severe bend, kinks and binding, grass build-up in the pulley groove, proper positioning of the pulley scraper finger. Be certain the cable housing is secure in the socket on the belt cover.

   Correct and adjust as required. See adjustment section. Test again.

3. Check to see that the handle is in the operating detent in the brackets on the deck, and the upstop projections restrict the handle from moving up and forward. If necessary, remove the left side from the mounting pin on the deck bracket. Push inward to decrease the spacing between the two sides of the handle until it is slightly less than the spacing of the deck brackets. Reinstall over the mounting pin and secure the hairpin cotter in the inner holes.

4. Fill sump with oil, using a high quality detergent oil classified "For Service SC, SD, SE or MS." Use SAE 30, SAE 10W-30 or SAE 10W-40 viscosity grade oil. Nothing should be added to the recommended oil.

   Place engine level. Remove dipstick. Fill to full mark on dipstick. Do not overfill. Pour slowly. Capacity 1¼ pints.

5. Fill fuel tank, using clean, fresh, **regular** grade automotive gasoline. Fill tank completely.

   DO NOT MIX OIL WITH GASOLINE.

## TO START ENGINE

### Model 121-343A

1. Move throttle control lever to "START" position.
2. Place foot on the right side of the deck and hold handle to prevent tipping the unit. Grasp starter handle as shown in figure 23 and pull out rapidly. Return it slowly to the engine. Repeat if necessary.

**FIGURE 23. Model 121-343A**

**NOTE**

This engine features a unique Automatic Choke. In case of flooding, move control to "STOP" and pull starter six times. Then move control to "START" position and start engine. If engine continues to flood, rotate the carburetor needle valve 1/8 turn clockwise to obtain a leaner mixture. See Carburetor Adjustment on page 13.

### Model 121-346A (Electric Start)

1. Move throttle control lever to "START" position.
2. Turn ignition key to "START" position.
3. After engine starts, move throttle control lever to desired speed.

**WARNING**

When starting the unit, place the unit facing a solid object to stop it if it is not correctly adjusted to be in "NEUTRAL" position. If the unit shows signs of motion without engaging the clutch control, shut off the engine immediately. Readjust the clutch control as necessary. See adjustment section.

This mower is designed to be operated at full throttle to give you the best cut and do the most effective job of bagging the cut grass.

**TO STOP ENGINE**

1. Move throttle control lever to "STOP" position. On electric start model, turn ignition key to "OFF" position and remove the key.
2. Remove spark plug wire from spark plug and ground to prevent accidental starting while equipment is unattended.

Be sure that lawn is clear of stones, sticks, wire, or other objects which could damage lawn mower or engine. For best results and to insure more even grass distribution, do not mow when lawn is excessively wet.

**IMPORTANT**

After striking a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

# ADJUSTMENTS

**CAUTION**

Do not at any time make any adjustment to lawn mower without first stopping engine and disconnecting spark plug wire.

**CUTTING HEIGHT**

An adjusting plate and thumb lever at each wheel position provides cutting height adjustment. Each adjusting plate has five holes. Height of cut will be changed when the thumb lever is moved from one hole to another. Simply depress the lever towards wheel and move wheel and lever assembly to desired position. See figure 24.

Cutting height will be raised as front and rear levers are lowered. Cutting height will be lowered as front and rear levers are raised. All wheels must be positioned at the same height.

For rough or uneven lawns, move the wheels to a position which will give a higher cutting height.

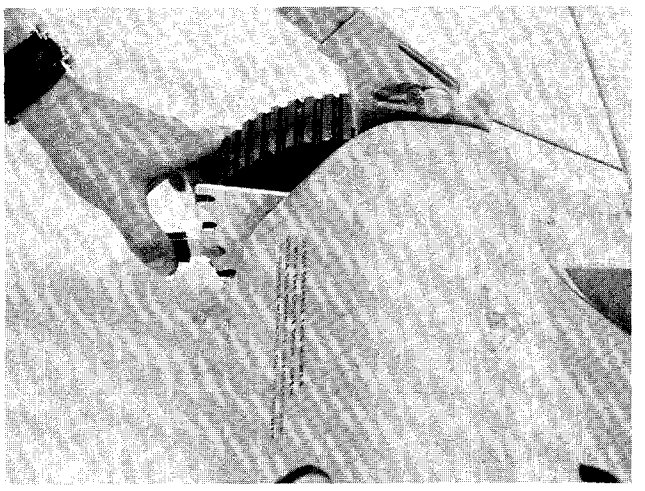


**FIGURE 24.**

**CLUTCH CONTROL ADJUSTMENT**

1. To increase belt tension, loosen jam nut and back off two or three threads. Thread the barrel nut on end of control cable outward two or three threads. Retighten jam nut. See figure 25.
2. To decrease belt tension, loosen jam nut and back off two or three threads. Thread the barrel nut on end of control cable inward two or three threads. Retighten jam nut. See figure 25.

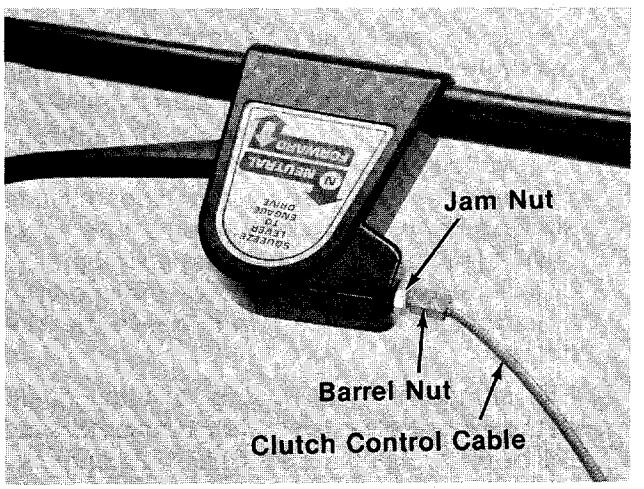



**FIGURE 25.**

## THROTTLE

If adjustment becomes necessary, the throttle control wire assembly can be reset as follows:

1. Loosen, but do not remove, the screw securing throttle control wire assembly at engine. See figure 26.
2. Move throttle control lever on handle to "FAST" position.
3. Move lever to which control wire is fastened at engine to full open position. Retighten screw to secure throttle control wire assembly.

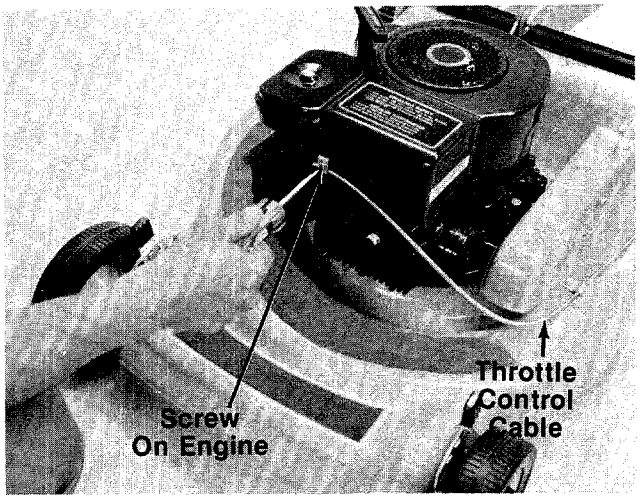



**FIGURE 26.**

## HANDLE POSITION

The upper handle can be adjusted to a high or low position. The operator of the lawn mower can easily adjust the handle position by unscrewing the two knobs, removing the two bolts and reassembling in the other position. No tools are necessary to make this adjustment. See figure 27.

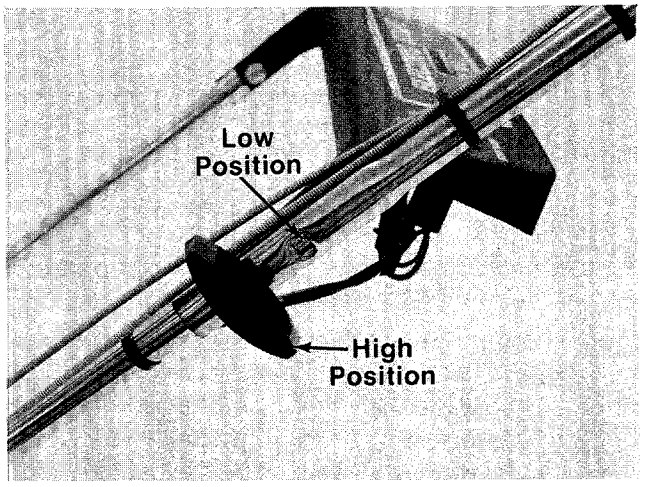



**FIGURE 27.**

**WARNING**

If any adjustments are made to the engine while the engine is running (e.g. carburetor), disengage all clutches and blades. Keep clear of all moving parts. Be careful of heated surfaces and muffler.

## CARBURETOR ADJUSTMENTS (See figure 28)

Minor carburetor adjustments may be required to compensate for differences in fuel, temperature, altitude and load.

All carburetor adjustments should be made with the air cleaner on engine. Air cleaner mounting screw must be in carburetor when engine is run. Best adjustment is made with a fuel tank half full of gasoline.

To Adjust Carburetor:

1. Start engine and run long enough to warm it to operating temperature.
   If engine is out of adjustment so that it will not start, close the needle valve by turning it clockwise. Then open needle valve 1-1/2 turns counterclockwise.
2. Move engine control to run engine at normal operating speed.
   a. Turn needle valve in clockwise until engine starts to lose speed (lean mixture).
   b. Then slowly turn needle valve out counterclockwise past the point of smoothest operation until engine just begins to run unevenly (rich mixture).
   c. Turn needle valve back in clockwise very slowly till engine runs evenly.
   d. Final adjustment of the needle valve should be slightly to the rich side (turn counterclockwise) of the mid-point.
3. Move engine control to SLOW. Turn idle adjusting screw until a fast idle is obtained (1750 R.P.M.).
4. To check adjustment, move engine control from SLOW to FAST speed. Engine should accelerate smoothly. If engine tends to stall or die out, increase idle speed or readjust carburetor, usually to a slightly richer mixture.

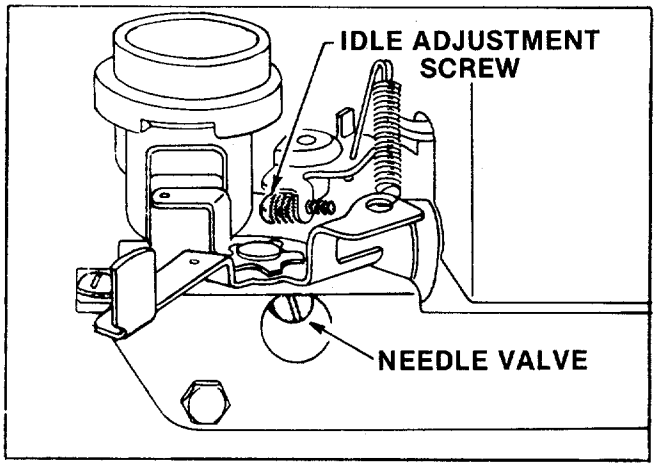



FIGURE 28.

# LUBRICATION

**IMPORTANT**

Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of work on lawn mower.

**Wheels**—Each front wheel has two ball bearings that require periodic lubrication. Place a few drops of light oil on each bearing at the start of each mowing season and again every 30 days. Rear wheel bearings are of self-lubricating Fortiflex. They require no lubrication.

If the wheels are removed for any reason, lubricate the surface of the axle bolt and the inner surface of the wheel with light oil. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

**Engine**—Follow engine manual for lubrication instructions.

**Throttle**—Periodically lubricate throttle control lever and throttle wire assembly with a few drops of light oil for ease of operation.

**Chain**—To lubricate the chain, remove the master link and chain. Soak the chain in kerosene or a solvent, and let it air dry. Wipe the chain with a rag saturated with SAE 30 oil. Reassemble the chain to the sprockets. Closed end of the master link clip should face in direction of chain travel.

If the rotary mower is operated in a sandy area, the chain should not be lubricated. Excessive oil on a chain will collect dirt and cause excessive wear on the chain and sprockets.

**Discharge Chute Door Mechanism**—The torsion spring and pivot point should be lubricated periodically with light oil to prevent any rust or binding. Door must work freely.

# MAINTENANCE

## CUTTING BLADE

### A. Removal for Sharpening or Replacement

**WARNING**

Be sure to disconnect and ground the spark plug wire before working on the cutting blade to prevent accidental engine starting.

1. Remove the large bolt and lock washer which holds the blade and adapter to the engine crankshaft. See figure 29.
2. Remove the blade and adapter from the crankshaft. Be careful not to lose the key on the crankshaft.
3. If the blade or blade adapter needs replacing, remove the two small bolts, lock washers and nuts which hold the blade to the adapter.

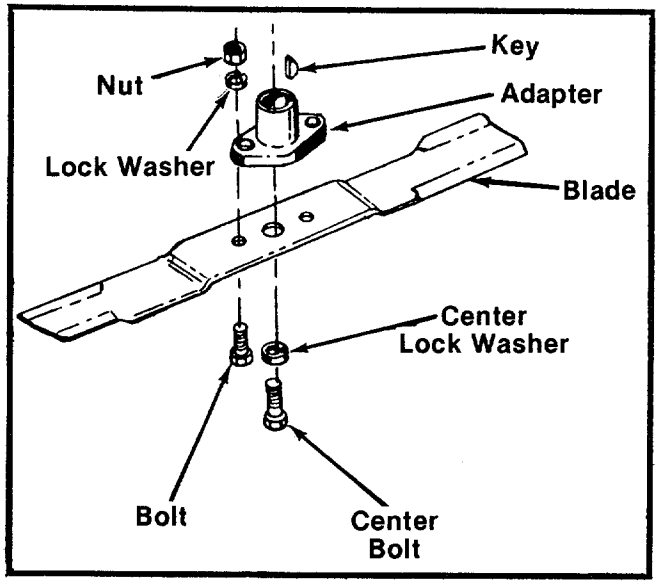



FIGURE 29.

### B. Sharpening

Remove the cutting blade by following the directions of the preceding section.

When sharpening the blade, follow the original angle of grind as a guide. It is **extremely important** that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds and may cause damage to the mower.

The blade can be tested for balance by balancing it on a round shaft screwdriver. Remove metal from the heavy side until it balances evenly. See figure 30.

**NOTE**

It is recommended that the blade always be removed from the adapter for the best test of balance.

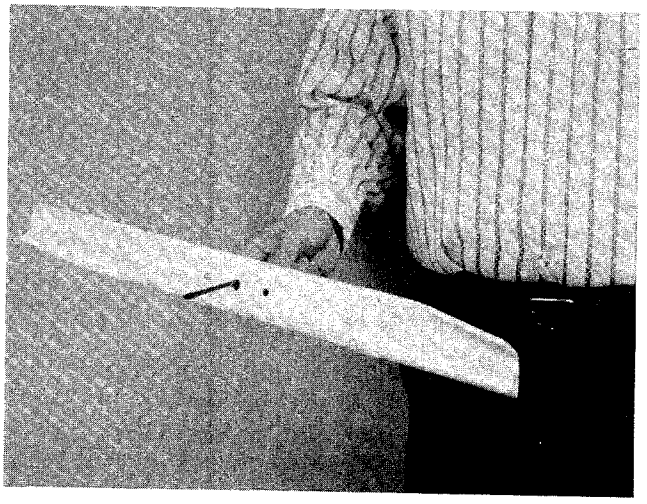


**FIGURE 30.**

**C. Reassembly**

Before reassembling the blade and the blade adapter to the unit, lubricate the engine crankshaft and the inner surface of the blade adapter with light oil. Lubricating the bolt holes, bolts and inner surface of the nuts with light oil is also recommended. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

When replacing the blade, be sure to install the blade with the side of the blade marked "Bottom" (or with part number) facing the ground when the mower is in the operating position. Make certain key is in place on the crankshaft.

Blade Mounting Torque

3/8" Dia. Bolt 375 in. lb. min., 450 in. lb. max.
5/16" Dia. Bolt 150 in. lb. min., 250 in. lb. max.

To insure safe operation of your unit, ALL nuts and bolts must be checked periodically for correct tightness.

**DECK**

The underside of mower deck should be cleaned after each period of use as grass clippings, leaves, dirt and other matter will accumulate. This accumulation of grass clippings, etc., is undesirable as it will invite rust and corrosion and may cause an uneven discharge of grass clippings at the next cutting.

Pay particular attention to the area of the rear baffle and chain. Grass may accumulate in this area and must be cleaned out periodically to prevent possible problems with the clutch engagement.

The deck may be cleaned by tilting the mower forward or on its side and scraping clean with a suitable tool or by washing with a stream of water from a garden hose.

**CAUTION**

Do not direct the stream of water at a hot engine as damage to the engine may result. Be sure spark plug wire is disconnected.

**ENGINE OIL**

Check oil level before starting engine and after every 5 hours of operation.

ADD oil as necessary to keep level full to point of overflowing.

Before removing oil fill plug, clean area around plug to prevent dirt from entering oil fill hole.

Engine should be in a level position when checking oil.

Change oil after first 5 hours of operation. Thereafter change every 25 hours. Change oil while engine is warm. Oil may be drained thru drain on bottom of engine. To drain completely, always place engine level when draining thru the bottom. Oil capacity 1-1/4 pints. See figure 31.

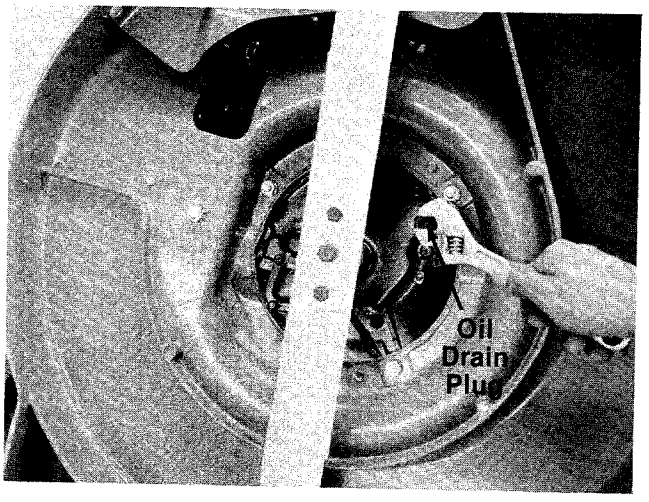



**FIGURE 31.**

**AIR CLEANER**

Clean air cleaner and re-oil element every 25 hours under normal conditions. Clean every few hours under extremely dusty conditions. Poor engine performance and flooding usually indicates that the air cleaner should be serviced. See figure 32.

1. Remove screw.
2. Remove air cleaner carefully to prevent dirt from entering carburetor.
3. Take air cleaner apart and clean.
   a. WASH foam element in kerosene or a liquid detergent and water to remove dirt.
   b. DRY foam completely by wrapping and squeezing in a cloth.
   c. SOAK foam with engine oil. Squeeze to distribute and remove excess oil.
4. Reassemble parts and fasten to carburetor.

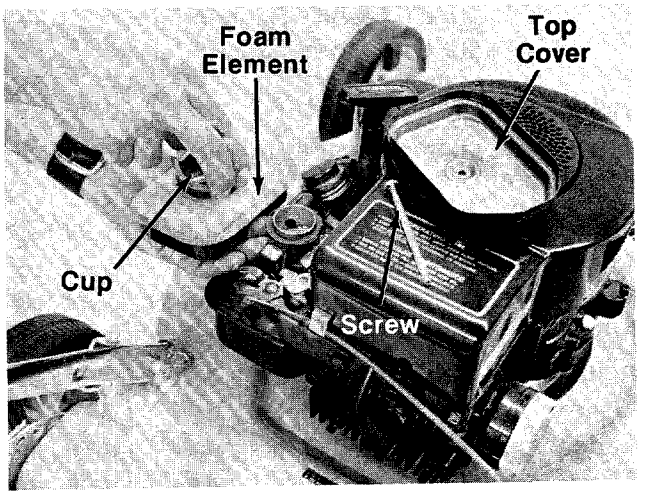



**FIGURE 32.**

## SPARK PLUG

The spark plug should be cleaned (see figure 33) and the gap reset to a 0.030-inch clearance once a season (see figure 34). Spark plug replacement is recommended at the start of each mowing season; check engine manual for correct plug type.

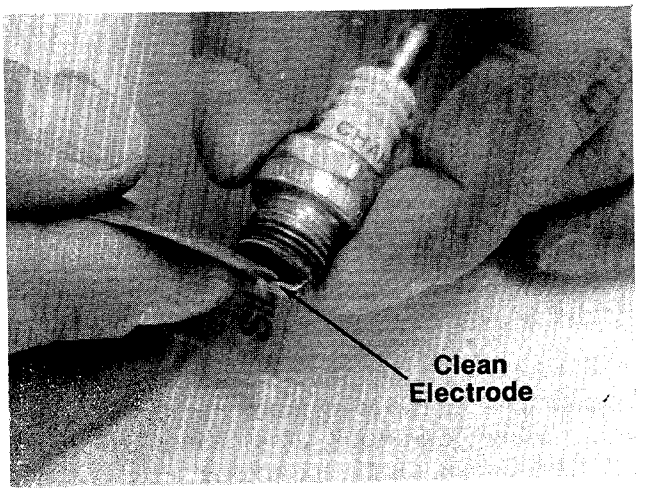



**FIGURE 33.**

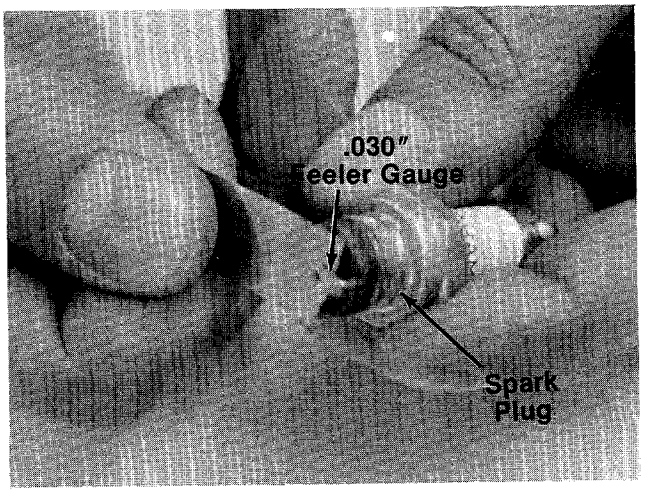



**FIGURE 34.**

**NOTE**

Whenever the spark plug is removed for cleaning, it is advisable to replace the spark plug gasket with a new gasket.

## BELT REMOVAL AND REPLACEMENT

1. Remove the spark plug wire and ground it.
2. Drain the fuel tank or place a piece of plastic film beneath the cap to prevent gasoline leakage.
3. Remove the three screws holding the cable clip and belt guard (and idler assembly). See figures 35 and 36.

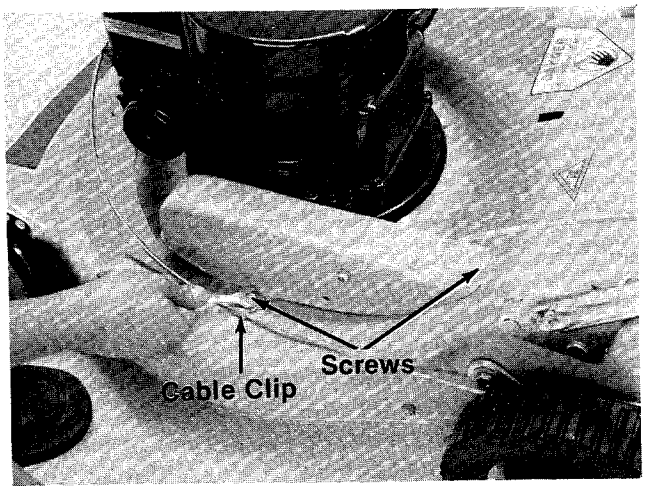



**FIGURE 35.**

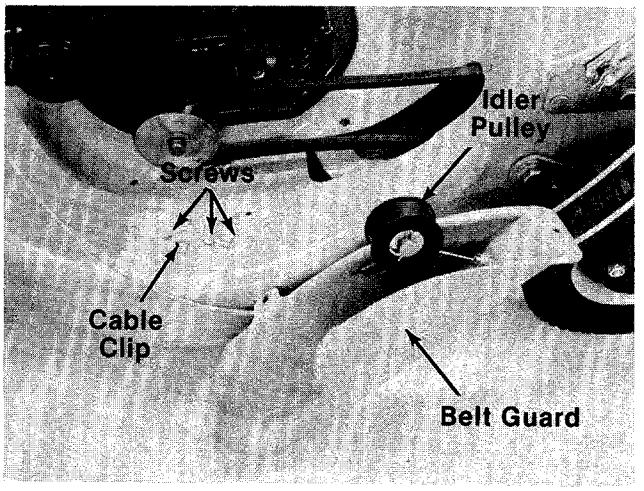



**FIGURE 36.**

4. Remove the belt from the idler as you lift off the belt guard.
5. Remove hex nut and lock washer from height adjustment lever on left side of mower as shown in figure 37.

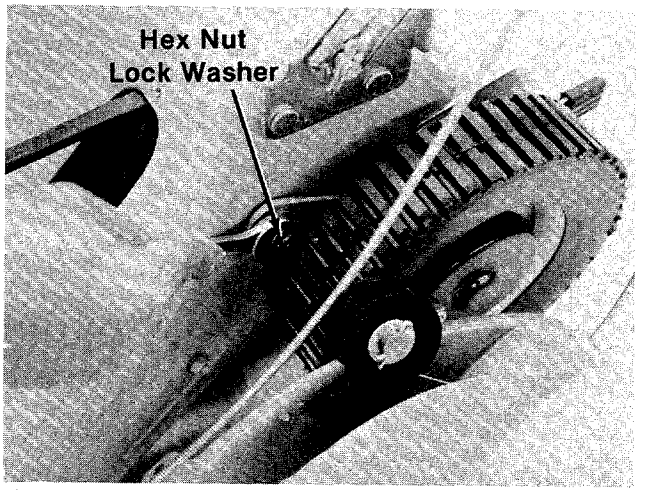



**FIGURE 37.**

6. Place the mower on its side.

**WARNING**

Make sure that the mower is secure and cannot tip over.

7. Remove two screws, nuts and lock washers. Remove one hex nut and lock washer from cover plate. See figure 38.

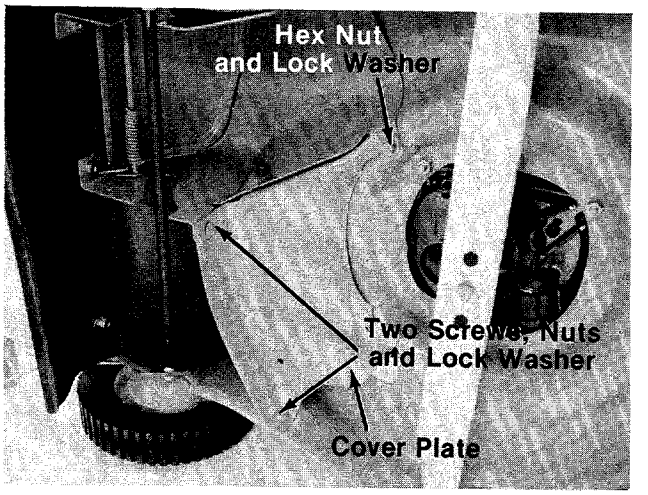



**FIGURE 38.**

8. Remove the cover plate. See figure 39.

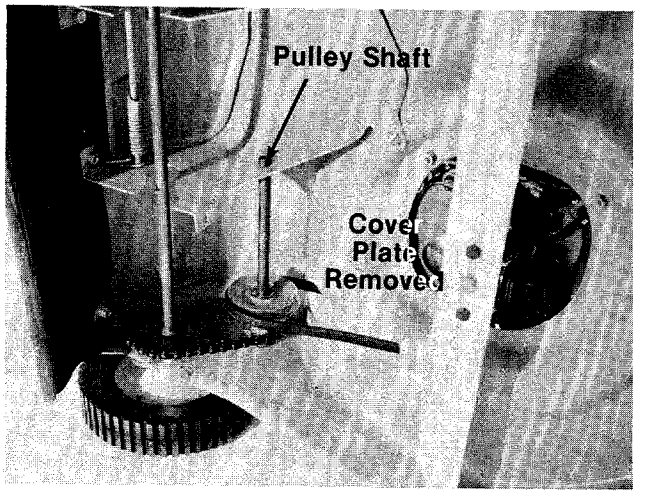



**FIGURE 39.**

9. Remove the master link from the chain. See figure 40.

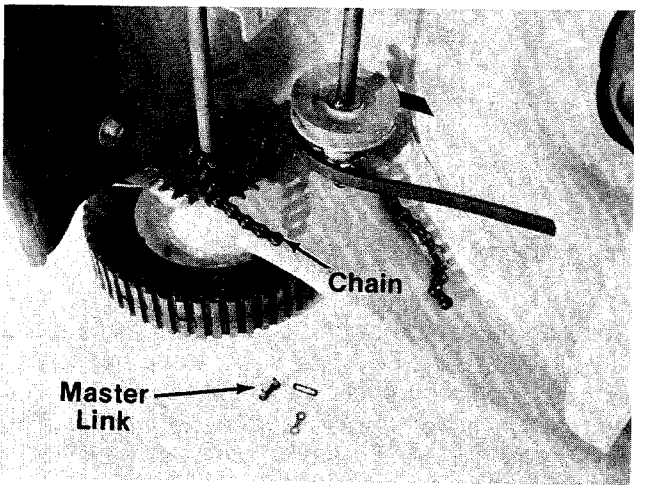



**FIGURE 40.**

10. Remove the chain, pulley shaft and belt. See figure 41.

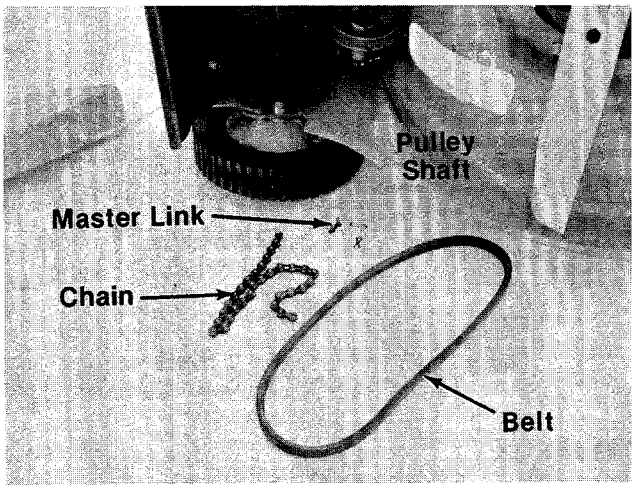



**FIGURE 41.**

11. Reassemble in reverse order with the new belt, making certain the idler pulley is under the belt. See figure 42.

**NOTE**

When reinstalling the chain, be sure the closed end of the master link clip faces in the direction of chain travel.

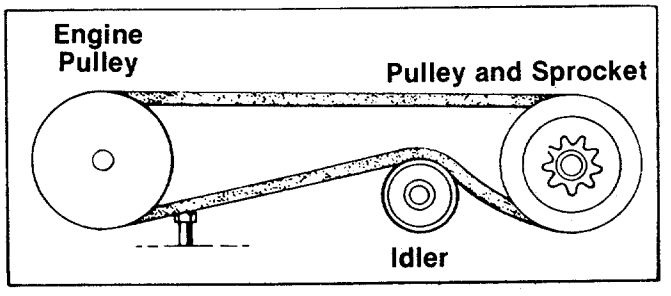



**FIGURE 42.**

# HANDLE STORAGE

The handle can be stored in an upright position to take less space. See figure 43. Move hairpin cotters to outer hole on weld pins (see figure 3). Grasp the lower handle at the bottom and pull apart slightly. Tip the handle forward. It will lock in this position. Reverse this procedure to place the handle in the operating position.

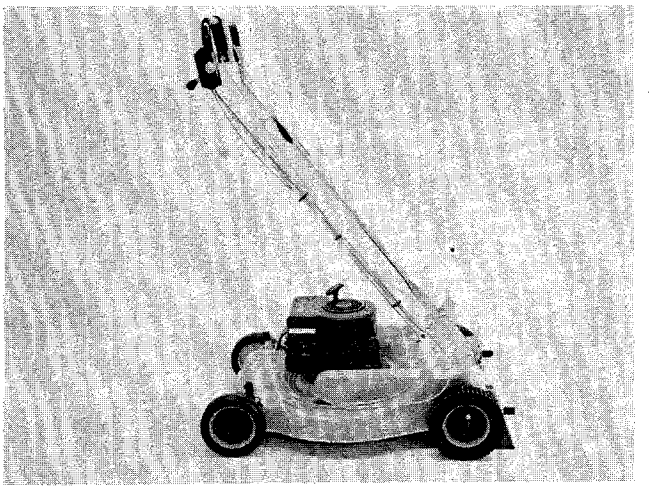


**FIGURE 43.**

The handle on this model may also be folded away completely for storage. See figures 44, 45, and 46.

1. Remove hairpin cotters from inner hole on weld pins on handle mount brackets. Place in outer hole.
2. Loosen the hand knobs on each side of the handle.
3. Press outward on the bottom of each side of the lower handle, and push forward.
4. Fold the upper handle back and down as shown.

To take the handle out of storage position, proceed as follows.

1. Lift the upper handle up and towards the rear as shown.
2. Pull the handle back until it locks into the operator's position.
3. Tighten the two hand knobs securely.
4. Move the hairpin cotters to the inner hole on the weld pins.

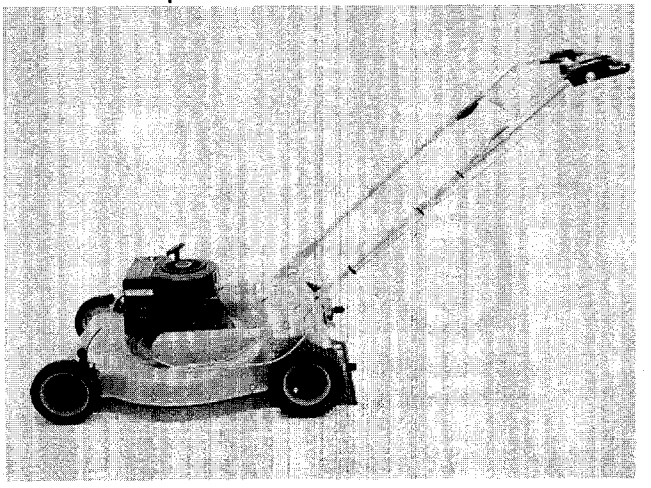


**FIGURE 44.**

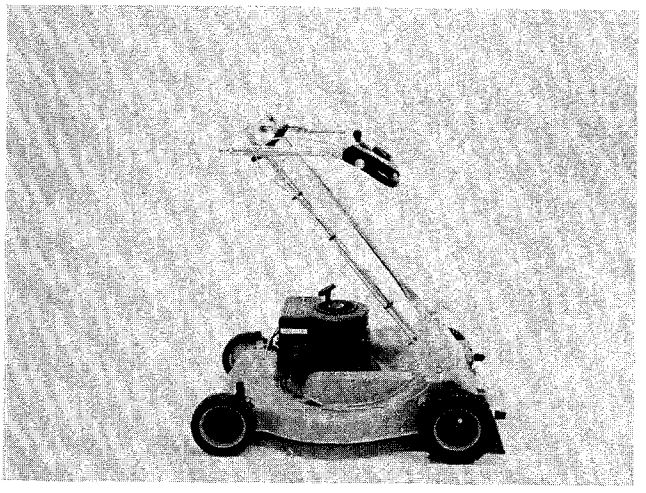


**FIGURE 45.**

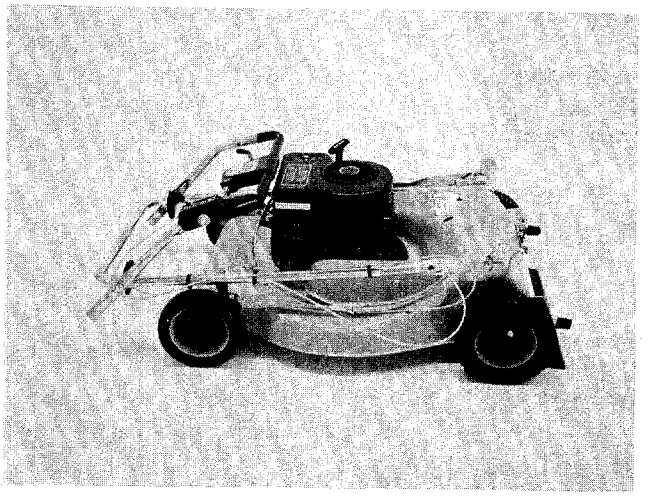


**FIGURE 46.**

# OFF-SEASON STORAGE

If the machine is to be inoperative for a period longer than 30 days, the following procedures are recommended:

1. Working outdoors, drain all fuel from the fuel tank. Use a clean dry cloth to absorb the small amount of fuel remaining in the tank. Then run the engine until all fuel in the carburetor is exhausted.

**WARNING**

Do not drain fuel while smoking, or if near an open fire.

2. Drain all the oil from the crankcase (this should be done after the engine has been operated and is still warm). Refill the crankcase with clean new oil.
3. Disconnect the spark plug wire and remove the spark plug from the cylinder. Pour about 2 or 3 tablespoons of engine oil into the cylinder. Turn the engine over several times to spread out the oil. Replace the spark plug, but do not connect the wire.
4. Clean the engine and the entire mower thoroughly.
5. Lubricate all lubrication points.

**NOTE**

The use of any accessory on this Rotary Mower other than those manufactured by the mower manufacturer is **not** recommended.

DO NOT operate the mower with the chute doors open unless the complete grass catcher is properly mounted on the mower.

The mower shall not be operated without the protective shield on the rear of the mower in place.

**NOTE**

Under normal usage bag material is subject to wear and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

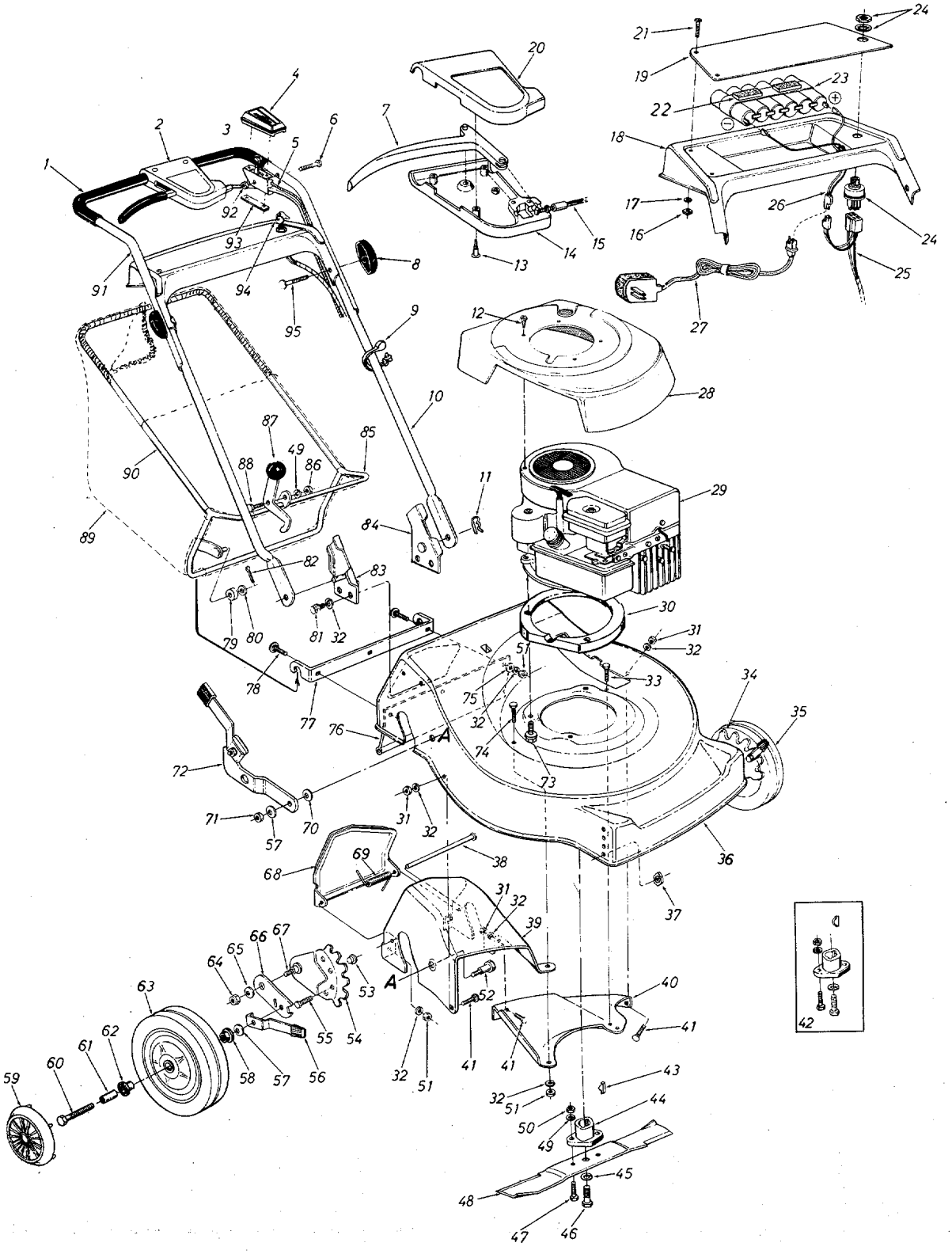
For replacement bags, use only factory authorized replacement bag No. 764-0170.

# NOTES

# 121-343A
# 121-346A

IF YOU WRITE TO US ABOUT THIS ARTICLE OR IF YOU ORDER REPLACEMENT PARTS ALWAYS MENTION THIS MODEL & SERIAL NO

MODEL

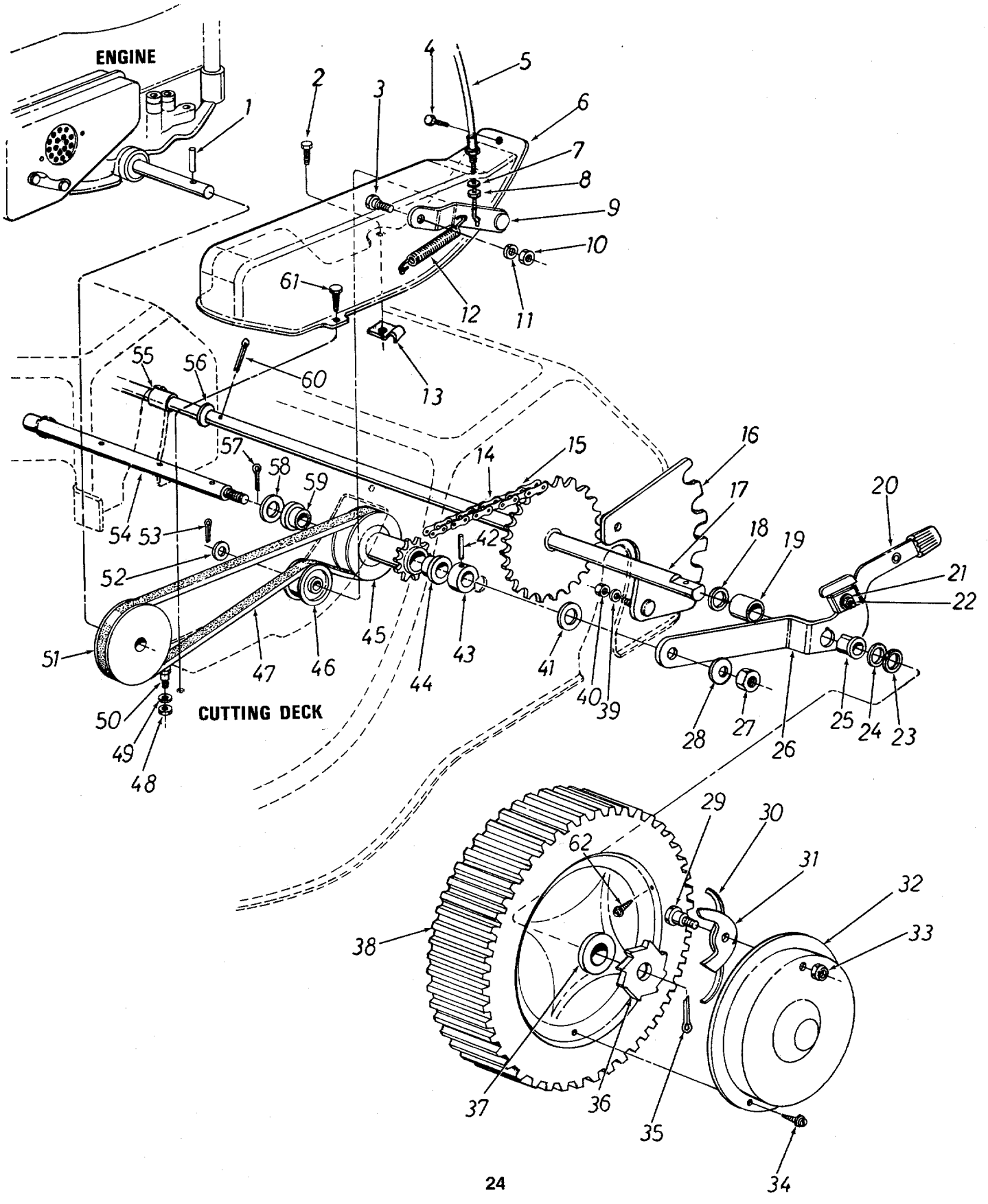


# 121-343A
# 121-346A

## PARTS LIST FOR MODELS 121-343A AND 121-346A

| REF. NO. | PART NO. | COLOR CODE | DESCRIPTION | NEW PART |
|---|---|---|---|---|
| 1 | 718-0145 | | Grip | |
| 2 | 13417 | | Clutch Control Ass'y. Comp. | |
| 3 | 746-0376 | | Throttle Control Ass'y. Comp. | |
| 4 | 731-0344 | | Plastic Cover | |
| 5 | 746-0377 | | Conduit and Wire | |
| 6 | 710-0606 | | Hex Bolt ¼-20 x 1.50" Lg.* | |
| 7 | 731-0406 | | Lever—Clutch Control | |
| 8 | 09966 | | Hand Knob | |
| 9 | 726-0188 | | Plastic Cable Tie | |
| 10 | 749-0375 | | Lower Handle | |
| 11 | 714-0104 | | Hairpin Cotter 5/16" Dia. | |
| 12 | 710-0227 | | Hex Wash. Hd. Self-Tap Scr. #8 x .38" Lg. | |
| 13 | 710-0535 | | Slotted Oval Self-Tap Scr. | |
| 14 | 731-0408 | | Rear Control Cover | |
| 15 | 746-0308 | | Clutch Control Cable 58" Lg. | |
| 16 | 712-0142 | | Hex Mach. Scr. Nut #8-32 Thd. (346A) | |
| 17 | 736-0168 | | External L-Wash. #8 I.D. (346A) | |
| 18 | 731-0504 | | Handle Panel (346A) | |
| 19 | 14222 | —462 | Battery Plate (346A) | |
| 20 | 731-0407 | | Front Control Cover | |
| 21 | 710-0618 | | Fl-Hd. Phil. Scr. ¼-20 x .62" Lg. (346A) | |
| 22 | 722-0135 | | P.C.U. Foam Strip (346A) | |
| 23 | 725-0726 | | Battery Pack (346A) | |
| 24 | 725-0267 | | Ignition Switch (346A) | |
| 25 | 725-0724 | | Wire Harness (346A) | |
| 26 | 725-0725 | | Battery Pack Lead (346A) | |
| 27 | 725-0727 | | Battery Charger (346A) | |
| 28 | 731-0303 | | Engine Shroud | |
| 29 | — | | Engine | |
| 30 | 13773 | —462 | Engine Mount Cover Plate | |
| 31 | 712-0271 | | Hex Sems Nut ¼-20 Thd.* | |
| 32 | 736-0329 | | L-Wash. ¼" I.D.* | |
| 33 | 710-0642 | | Hex Wash. Hd. Self-Tap Scr. ¼-20 x .75" Lg. | |
| 34 | 12321 | | Height Adj. Ass'y.—L.H. | |
| | 12322 | | Height Adj. Ass'y.—R.H. (Not Shown) | |
| 35 | 734-0845 | | Wheel Ass'y. Comp.—Front 8.0 x 1.75 | |
| 36 | 14005 | —462 | 22" Deck Ass'y. | |
| 37 | 712-0297 | | Oval Nut 3/8-16 Thd. (Special) | |
| 38 | 738-0386 | | Hinge Pin .250" Dia. x 7.25" Lg. | |
| 39 | 14235 | —462 | Rear Chute Ass'y. (Includes Ref. No.'s 38, 53, 68, & 69) | |
| 40 | 14014 | —462 | Rear Chute Baffle—L.H. | |
| 41 | 710-0167 | | Carriage Bolt ¼-20 x .50" Lg.* | |
| 42 | 10769 | | Blade Adapter Kit | |
| 43 | 714-0365 | | #6 Hi-Pro Key 5/32 x 5/8" Dia. | |
| 44 | 10769 | | Blade Adapter Kit | |
| 45 | 736-0217 | | L-Wash. 3/8" I.D. Heavy Duty | |
| 46 | 710-0459 | | Hex Bolt 3/8-24 x 1.50" Lg. (Grade 5) | |
| 47 | 710-0117 | | Hex Bolt 5/16-24 x 1.00" Lg. (Grade 5) | |
| 48 | 742-0125 | | 22" Blade | |
| 49 | 736-0119 | | L-Wash. 5/16" I.D.* | |
| 50 | 712-0123 | | Hex Nut 5/16-24 Thd.* | |
| 51 | 712-0287 | | Hex Nut ¼-20 Thd.* | |
| 52 | 738-0430 | | Shld. Bolt .50" Dia. x .685" Lg. | |
| 53 | 726-0106 | | Push Nut ¼" Rod | |
| 54 | 12323 | | Index Plate | |
| 55 | 710-0209 | | Hex Sems Bolt 3/8-16 x .62" Lg. | |
| 56 | 10531 | | Spring Lever Ass'y. w/Knob | |
| 57 | 736-0105 | | Belleville Wash. 3/8" I.D. | |
| 58 | 741-0267 | | Flange Ball Brg. 3/8" I.D. | |
| 59 | 731-0124 | | Hub Cap—Front Wheel | |
| 60 | 710-0427 | | Hex Bolt 3/8-16 x 2.00" Lg. | |
| 61 | 750-0434 | | Split Tubing | |
| 62 | 741-0484 | | Flange Ball Brg. ½" I.D. | |
| 63 | 734-0845 | | Wheel Ass'y. Comp.—Front 8.0 x 1.75" | |
| 64 | 712-0375 | | Hex Cent. L-Nut 3/8-16 Thd. | |
| 65 | 736-0255 | | Bell. Wash. .50" I.D. x 1.14" O.D. x .029 | |
| 66 | 10619 | | Pivot Bar | |
| 67 | 738-0269 | | Shoulder Bolt (3/8-16 Thd.) | |
| 68 | 13407 | —452 | Chute Door | |
| 69 | 732-0346 | | Torsion Spring | |
| 70 | 736-0219 | | Bell. Wash. .440 I.D. | |
| 71 | 712-0342 | | Hex Jam Nut 3/8-16 Thd. | |
| 72 | 10639 | | Pivot Brkt. Ass'y.—R.H. | |
| 73 | 710-0654 | | Hex Wash. Hd. Self-Tap Scr. 3/8-16 x .88" Lg. | |
| 74 | 710-0258 | | Hex Bolt ¼-20 x .62" Lg.* | |
| 75 | 736-0211 | | Fl-Wash. .285" I.D. x 1.25" O.D. x .060 Thk. | |
| 76 | 731-0449 | | Rear Flap Ass'y. | |
| 77 | 14012 | —452 | Grass Catcher Hitch Brkt. | |
| 78 | 710-0703 | | Carriage Bolt ¼-20 x .75" Lg.* | |
| 79 | 731-0430 | | Plastic Roller | |
| 80 | 736-0185 | | Fl-Wash. .406" I.D. x .74" O.D. x .063 | |
| 81 | 710-0776 | | Hex Wash. Hd. Self-Tap Scr. ¼-20 x .62" Lg. | |
| 82 | 714-0507 | | Cotter Pin 3/32" Dia. x .75" Lg.* | |
| 83 | 12296 | | Handle Mount Brkt. Ass'y.—R.H. | |
| 84 | 12297 | | Handle Mount Brkt. Ass'y.—L.H. | |
| 85 | 13924 | | Grass Catcher—Lower Frame Ass'y. | |
| 86 | 712-0267 | | Hex Nut 5/16-18 Thd.* | |
| 87 | 13435 | | Cam—Lever Grip Ass'y. | |
| 88 | 738-0140 | | Shld. Bolt .437" Dia. x .180" Lg. | |
| 89 | 764-0170 | | Grass Bag Flip Top | |
| 90 | 749-0278 | | Grass Catcher Upper Frame | |
| 91 | 749-0377 | | Upper Handle | |
| 92 | 712-0107 | | Hex Cent. L-Nut ¼-20 Thd. | |
| 93 | 726-0134 | | Speed Nut #8-32 Twin Type | |
| 94 | 725-0201 | | Ignition Key (346A) | |
| 95 | 710-0405 | | Curved Hd. Carriage Bolt 5/16-18 x 1.75" Lg. | |

# 121-343A
# 121-346A



# 121-343A
# 121-346A

## PARTS LIST FOR MODELS 121-343A AND 121-346A

| REF. NO. | PART NO. | COLOR CODE | DESCRIPTION | NEW PART |
|---|---|---|---|---|
| 1 | 715-0105 | | Spring Pin Roll 3/16" Dia. x 1.50" Lg. | |
| 2 | 710-0642 | | Hex Tap Scr. ¼-20 x .75" Lg.* | |
| 3 | 738-0255 | | Shld. Bolt .375" Dia. x .171 Lg. | |
| 4 | 710-0599 | | Hex Wash. Hd. Self-Tap Scr. ¼-20 x .50" Lg. | |
| 5 | 746-0308 | | Clutch Control Cable 58" Lg. | |
| 6 | 12309 | —462 | Belt Cover | |
| 7 | 736-0329 | | L-Wash. ¼" I.D.* | |
| 8 | 712-0298 | | Hex Jam Nut ¼-20 Thd.* | |
| 9 | 13415 | | Idler Brkt. Ass'y. | |
| 10 | 712-0287 | | Hex Nut ¼-20 Thd.* | |
| 11 | 736-0329 | | L-Wash. ¼" I.D.* | |
| 12 | 732-0357 | | Tension Spring | |
| 13 | 12894 | | Cable Clip | |
| 14 | 713-0144 | | #48 Chain ½" Pitch x 31 Links | |
| 15 | 713-0122 | | #48 Master Link | |
| 16 | 10641 | | Index Plate Ass'y.—L.H. (Rear) | |
| | 10642 | | Index Plate Ass'y.—R.H. (Rear—Not Shown) | |
| 17 | 13414 | | Rear Shaft Ass'y. | |
| 18 | 1540-086 | | Fl-Wash. .51" I.D. x 1.00" O.D. x .125" Thk. | |
| 19 | 750-0190 | | Spacer .70" I.D. x 7/8" O.D. x 1.00" Lg. | |
| 20 | 10531 | | Spring Lever Ass'y. w/Knob | |
| 21 | 736-0105 | | Belleville Wash. 3/8" I.D. | |
| 22 | 712-0342 | | Hex Jam Nut 3/8-16 Thd. | |
| 23 | 736-0160 | | Fl-Wash. .531 I.D. x .930 O.D. x .050" Thk. | |
| 24 | 736-0160 | | Fl-Wash. .531 I.D. x .930 O.D. x .050" Thk. | |
| 25 | 748-0142 | | Flange Bearing .503" I.D. | |
| 26 | 10638 | | Pivot Bracket Ass'y.—L.H. | |
| 27 | 712-0342 | | Hex Jam Nut 3/8-16 Thd. | |
| 28 | 736-0219 | | Belleville Wash. .400" I.D. | |
| 29 | 738-0137 | | Shoulder Bolt .342" Dia. x .268 Lg. | |
| 30 | 10622 | | Nylon Spring | |
| 31 | 748-0188 | | Pawl | |
| 32 | 10647 | | Hub Cap—Rear Wheel | |
| 33 | 712-0219 | | Elastic Stop Nut ¼-20 Thd. | |
| 34 | 710-0748 | | Pan Hd. Tap Scr. #12 x .50" Lg. | |
| 35 | 714-0115 | | Cotter Pin 1/8" Dia. x 1.00" Lg.* | |
| 36 | 748-0187 | | Ratchet—Rear Wheel | |
| 37 | 741-0262 | | Flange Brg. Plastic .50" I.D. | |
| 38 | 734-0880 | | Wheel Ass'y. Comp. 8.0 x 1.75"—Rear | |
| 39 | 736-0119 | | L-Wash. 5/16" I.D.* | |
| 40 | 712-0267 | | Hex Nut 5/16-18 Thd.* | |
| 41 | 736-0219 | | Belleville Wash. .400" I.D. | |
| 42 | 715-0120 | | Spring Pin Spiral 3/16" Dia. x 1.00" Lg. | |
| 43 | 750-0387 | | Spacer .505" I.D. x .880" O.D. x .44 | |
| 44 | 748-0248 | | Flange Brg. .506 I.D.—Plastic | |
| 45 | 756-0191 | | Pulley w/9 Tooth Sprocket Ass'y. | |
| 46 | 756-0192 | | Plastic Flat Idler Pulley | |
| 47 | 754-0252 | | "V"-Belt ½" x 33" Long | |
| 48 | 712-0267 | | Hex Nut 5/16-18 Thd.* | |
| 49 | 736-0119 | | L-Wash. 5/16" Scr.* | |
| 50 | 738-0140 | | Shld. Bolt .437" Dia. x .180" Lg. | |
| 51 | 756-0115 | | Engine Pulley | |
| 52 | 736-0160 | | Fl-Wash. .531" I.D. x .930" O.D. x .050" Thk. | |
| 53 | 714-0115 | | Cotter Pin 1/8" Dia. x 1.00" Lg.* | |
| 54 | 738-0471 | | Pulley Shaft 10.0" Lg. | |
| 55 | 750-0190 | | Spacer .70" I.D. x 7/8" O.D. x 1.00" Lg. | |
| 56 | 736-0160 | | Fl-Wash. .531" I.D. x .930" O.D. x .050" Thk. | |
| 57 | 714-0111 | | Cotter Pin 3/32" Dia. x 1.00" Lg.* | |
| 58 | 736-0160 | | Fl-Wash. .531" I.D. x .930" O.D. x .050" Thk. | |
| 59 | 741-0248 | | Flange Brg. .506 I.D. Plastic | |
| 60 | 714-0111 | | Cotter Pin 3/32" Dia. x 1.00" Lg.* | |
| 61 | 710-0599 | | Hex Wash. Self-Tap Scr. ¼-20 x .50" Lg. | |
| 62 | 710-0200 | | Hex Wash. Hd. Self-Tap Scr. Type "A" #8 x .50" Lg. | |

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

**NOTE**

This instruction manual covers various models and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.

(462—Red Flake)

When ordering parts, if color or finish is important use the appropriate color code shown above. (e.g. Red Flake Finish—14005 (462).)

NOTE: The engine is not under warranty by the mower manufacturer . . . If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines—Gasoline."

# PARTS INFORMATION

**POWER EQUIPMENT PARTS AND SERVICE**

Parts and service for all MTD manufactured power equipment are available through the authorized service firms listed below. All orders should specify the model number of your unit, part numbers, description of parts and the quantity of each part required.

**BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE**

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm Check the yellow pages of your telephone directory under the listing **Engines—Gasoline,** Briggs & Stratton or Tecumseh Lauson.

NOTE: If any parts are found to be missing or defective upon assembly of this unit, write to advise the factory so that immediate replacement can be made.

| | | |
|---|---|---|
| **ALABAMA** | **BIRMINGHAM** | |
| Auto Electric & Carburetor Co. | 2625 4th Ave. S. | 35233 |
| **ARKANSAS** | **FORT SMITH** | |
| Mity Mite Motors, Inc. | 4515 S. 16th St. | 72901 |
| | **NORTH LITTLE ROCK** | |
| Sutton's Lawn Mower Shop | Rt. 4, Box 368 | 72117 |
| **CALIFORNIA** | **PORTERVILLE** | |
| Billious | 75 North D Street | 93257 |
| | **SAN FRANCISCO** | |
| J.W. Jewett Co. | 981 Folsom St. | 94107 |
| **COLORADO** | **DENVER** | |
| Colorado Outdoor Power Equip. | 527 West Evans | 80223 |
| **FLORIDA** | **JACKSONVILLE** | |
| Radco Distributors | 4909 Victor St. Box 5459 | 32207 |
| | **OPA LOCKA** | |
| Small Eng. Dist. | 2351 N.W. 147th St. | 33054 |
| **GEORGIA** | **EAST POINT** | |
| East Point Cycle & Key | 2834 Church St. | 30344 |
| **ILLINOIS** | **LYONS** | |
| Keen Edge Co. | 8615 Ogden Ave. | 60534 |
| **INDIANA** | **ELKHART** | |
| Parts & Sales Inc. | 2101 Industrial Pkwy. | 46514 |
| **IOWA** | **DUBUQUE** | |
| Power Lawn & Garden Equip. | 2551 J.F. Kennedy | 52001 |
| **LOUISIANA** | **NEW ORLEANS** | |
| Suhren Engine Co. | 8330 Earhart Blvd. | 70118 |
| **MARYLAND** | **TAKOMA PARK** | |
| Center Supply Co. | 6867 New Hampshire Ave. | 20012 |
| **MASSACHUSETTS** | **SPRINGFIELD** | |
| Morton B. Collins Co. | 300 Birnie Ave. | 01107 |
| **MICHIGAN** | **LANSING** | |
| Lorenz Service Co. | 2500 S. Pennsylvania | 48910 |
| | **MOUNT CLEMENS** | |
| Power Equipment Dist. | 36463 South Gratiot | 48043 |
| **MINNESOTA** | **HOPKINS** | |
| Hance Distributing Inc. | 420 Excelsior Ave. W. | 55343 |
| **MISSISSIPPI** | **BILOXI** | |
| Biloxi Sales & Service, Inc. | 506 Caillavet St. | 39533 |
| **MISSOURI** | **KANSAS CITY** | |
| Automotive Equip. Service | 3117 Holmes St. | 64109 |
| | **ST. JOSEPH** | |
| Ross-Frazier Supply Co. | 8th and Monterey | 64503 |
| | **ST. LOUIS** | |
| Henzler, Inc. | 2015 Lemay Ferry Road | 63125 |
| **NEW JERSEY** | **BELLMAWR** | |
| Lawnmower Parts Inc. | 717 Creek Rd. | 08030 |
| **NEW YORK** | **CARTHAGE** | |
| Gamble Dist., Inc. | West End Ave. | 13619 |
| **NORTH CAROLINA** | **GOLDSBORO** | |
| Smith Hardware Co. | 515 N. George St. | 27530 |
| | **GREENSBORO** | |
| Dixie Sales Company | 335 N. Green | 27402 |
| **OHIO** | **CARROLL** | |
| Stebe's Mid-State Mower Supply | Box 366, 71 High St. | 43112 |
| | **CLEVELAND** | |
| Bleckrie, Inc. | 7900 Lorain Ave. | 44102 |
| | **WADSWORTH** | |
| National Central | 687 Seville Rd. | 44281 |
| | **YOUNGSTOWN** | |
| Burton Supply Co. | 1301 Logan Ave. Box 929 | 44501 |
| **OKLAHOMA** | **MUSKOGEE** | |
| Victory Motors, Inc. | 605 S. Cherokee | 74401 |
| | **OKLAHOMA CITY** | |
| Forest Sales Inc. | 6415 N. Olie | 73116 |
| **OREGON** | **PORTLAND** | |
| Kenton Supply Co. | 8216 N. Denver Ave. | 97217 |
| **PENNSYLVANIA** | **CHESTER** | |
| Stull Equipment Corp. | 742 W. Front St. | 19013 |
| | **HARRISBURG** | |
| EECO Inc. | 4021 N. 6th St. | 17110 |
| | **PHILADELPHIA** | |
| Thompson Rubber Co. | 5222-24 N. Fifth St. | 19120 |
| | **PITTSBURGH** | |
| Bluemont Co. | 11125 Frankstown Rd. | 15235 |
| | **PUNXSUTAWNEY** | |
| Frank Roberts & Sons | R.D. 2 | 15767 |
| **TENNESSEE** | **KNOXVILLE** | |
| Master Repair Service | 2000 Western Ave. | 37921 |
| | **MEMPHIS** | |
| American Sales & Service, Inc. | 3035-43 Bellbrook | 38116 |
| **TEXAS** | **DALLAS** | |
| Marr Brothers, Inc. | 423 E. Jefferson | 75203 |
| | **FORT WORTH** | |
| Woodson Sales Corp. | 1702 N. Sylvania | 76111 |
| | **HOUSTON** | |
| Bullard Supply Co. | 2409 Commerce St. | 77003 |
| | **SAN ANTONIO** | |
| Catto & Putty, Inc. | 414 Live Oak | 78298 |
| **UTAH** | **SALT LAKE CITY** | |
| A-1 Engine & Mower Co. | 437 E. 9th St. | 84111 |
| **VERMONT** | **BURLINGTON** | |
| Vermont Hdwe. Co. Inc. | 180 Flynn Ave. | 05401 |
| **VIRGINIA** | **RICHMOND** | |
| RBI Corp. | 963 Myers St. | 23260 |
| **WASHINGTON** | **SEATTLE** | |
| Bailey's Inc. | 1414 14th Ave. | 98102 |
| **WEST VIRGINIA** | **CHARLESTON** | |
| Young's, Inc. | 233 Virginia St., E. | 25301 |
| **WISCONSIN** | **MARSHFIELD** | |
| Power Pac | 301 E. 29th St. | 54449 |

**WARRANTY PARTS AND SERVICE POLICY**

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

**CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES:**

1. **Replacement of Missing Parts** on new equipment.
2. **Replacement of Defective Parts** within the warranty period.
3. **Repair of Defects** within the warranty period.

All claims MUST be substantiated with the following information:

1. **Model Number** of unit involved.
2. **Date** unit was purchased or first put into service.
3. **Date of failure.**
4. **Nature of failure.**